

In the Claims

Rewrite claims 2-4 and 7-16, inclusive, as follows:

2. (amended) A process for the preparation of a transgenic plant; which process comprises:

(i) transforming a plant cell with a chimaeric gene comprising (a) a promoter and (b) a deoxynucleic acid coding sequence which encodes for an enzyme selected from the group consisting
[phosphofructokinase,] of pyruvate kinase, acid invertase, starch synthase, adenine diphosphoglucose pyrophosphorylase, sucrose synthase, 6-phospho-fructokinase (pyrophosphate) [or] and sucrose phosphate synthetase; and
(ii) regenerating a plant from the transformed cell.

3. (amended) A process according to claim [1 or] 2, wherein the coding sequence (b) is from a microbial gene.

4. (amended) A process according to claim [3] 2, wherein the coding sequence (b) is from a bacterial gene.

7. (amended) A process according to claim [1] 2 wherein the plant cell transformed in step (1) is a cell of a

7. (A) monocotyledonous species selected from the group consisting of barley, wheat, maize and rice; or a

(B) dicotyledonous species selected from the group consisting of cotton, lettuce, melon, pea, petunia, potato, rape, soybean, sugar beet, sunflower, tobacco and tomato.

8. (amended) A process according to claim [5] 7, wherein the plant cell transformed is the cell of a potato [is a potato] cultivar selected from the group consisting of Desiree, Maris Bard, Record and Russet Burbank.

9b 9. (amended) A chimaeric gene [as defined in any one of claims 1-6] which comprises:

(a) a promoter; operably linked to

(b) a deoxynucleic acid coding sequence which encodes an enzyme selected from the group consisting of pyruvate kinase, acid invertase, starch synthase, adenine diphosphoglucose pyrophos- phorylase, sucrose synthase, 6-phosphofructokinase (pyrophosphate) and sucrose phosphate.

10. (amended) A vector which comprises a chimaeric gene as defined in [any one of claims 1-6] claim 1 [such that the chimaeric gene is] capable of being expressed in a plant cell transformed with the vector.

11. (amended) A vector according to claim [8] 10, which is a plasmid.

12. (amended) A plant cell which harbours a chimaeric gene as defined in [any one of claims 1-6] claim 1 capable of being expressed therein.

Sub D2 13. (amended) A transgenic plant which harbors in its cells a chimaeric gene [as defined in any one of claims 1-6] which comprises;

(a) a promoter operably linked to

96 (b) a deoxynucleic acid coding sequence which encodes an enzyme selected from the group consisting of pyruvate kinase, acid invertase, starch synthase, 6-phosphofructokinase (pyrophosphate), adenine diphosphoglucose pyrophosphorylase and sucrose phosphate synthetase; and which is capable of being expressed in the cells of the plant.

14. (amended) A plant according to claim 13, which is a potato.

15. (amended) Seed obtained from a transgenic plant as claimed in claim 13 [or 14].

16. (amended) Tubers obtained from a potato as claimed in claim 14.

Enter new claims 17-20 as follows:

17. A process for preparing a transgenic plant, which comprises;

(i) transforming a plant cell with a chimaeric gene comprising (a) a promoter and (b) a nucleotide coding sequence which encodes for an enzyme effecting production of a member selected from the group consisting of starch, sucrose or reducing sugar in said plant; and

(ii) regenerating a plant from the transformed cell.

97 18. A chimaeric gene which comprises;

(a) a promoter; and

(b) a nucleotide coding sequence which encodes for an enzyme effecting production of a member selected from the group consisting of starch, sucrose or reducing sugar when expressed in the cells of a plant.